

**Notice of Allowability**

Application No.

10/627,760

Examiner

YOUNG T. TSE

Applicant(s)

MANTELET ET AL.

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 14 June 2007.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☒ Certified copies of the priority documents have been received in Application No. 09/362,109.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08);  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413);  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In claim 1, line 10, "a second value" has been changed to "a second encoded value".

In claim 2, last line, "said successive encoded symbols" has been changed to "said successive validated encoded symbols".

In claim 4, lines 5-6, "said complemented envelope logic signal" has been changed to "the complement of said envelope logic signal".

In claim 5, line 5, "said complemented envelope logic signal" has been changed to "the complement of said envelope logic signal".

In claim 7, last line "said successive encoded symbols" has been changed to "said successive validated encoded symbols".

In claim 10, last line, "said flow series" has been changed to "said series flow".

In claim 11, line 18, "validated pulse symbols" has been changed to "pulse symbols", and line 21, "said successive encoded symbols" has been changed to "said successive validated encoded symbols".

In claim 13, lines 5-6, "said complemented envelope logic signal" has been changed to "the complement of said envelope logic signal".

In claim 14, line 5, "said complemented envelope logic signal" has been changed to "the complement of said envelope logic signal".

In claim 15, line 3, "the second envelope" has been changed to "a second logic".

In claim 16, lines 20-21, "said successive encoded symbols" has been changed to "said successive validated encoded symbols".

2. The following is an examiner's statement of reasons for allowance: The prior art fails to show or suggest a method for convolutive encoding comprising the steps of: defining for the convolutive encoding a stable starting binary value; subjecting digital data of a current packet to a convolutive encoding process, at each value of a current bit corresponding to a first encoded value and a second encoded value, a set of the first and second encoded values constituting an encoded symbol representative of the current bit; forming from encoded symbols, a packet of encoded symbols, by a concatenation of the encoded symbols; assigning to the convolutive encoding process the stable starting binary value as a constraint value at the end of the packet of encoded symbols; and generating at least one encapsulation message of the packet of encoded symbols. The prior art fails to show or suggest a decoding device or a method for decoding a digital data series flow encoded by convolutive encoding using a stable starting binary value comprising: a circuit for receiving a packet of encoded symbols and an encapsulation message; a circuit for discriminating the encapsulation message in order to generate an envelope logic signal having a first binary value prior to the start,

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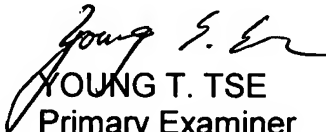
and subsequently at the end, of the packet of encoded symbols and a second binary value during the reception of the packet of encoded symbols; a logic processing circuit for generating successive pause symbols of specified value and rank, on the basis of the stable starting binary value for the first binary value of the envelope logic signal, and successive validated encoded symbols of rank corresponding to the packet of encoded symbols for the secondary binary value of the envelope logic signal; and a Viterbi decoder for carrying out, on the basis of the successive pause symbols and validated encoded symbols of given rank to a continuous Viterbi type decoding, the pause symbols providing continuity of a decoding lattice by imposing a stable state between two packets of the successive validated encoded symbols.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOUNG T. TSE whose telephone number is (571) 272-3051. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
YOUNG T. TSE  
Primary Examiner  
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